

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended) A Gas-insulated gas-insulated switchgear comprising:

a grounding metal housing, filled with insulating gas, ~~and in and~~ which a accommodates
a disconnector part, a grounding switch part and a conductor connecting part are accommodated;
and

composite insulating shields integrally formed into one metal-dielectric member in which
a surface of a high electric field part, located in the vicinity of at ends of openings of the
composite insulating shields, is coated with a dielectric coating; in such a manner as to cover
wherein the dielectric coating covers electrode parts of said disconnector part, said
grounding switch part and said conductor connecting part with the dielectric;

wherein, to form said composite insulating shields of at least one of the disconnector part,
the grounding switch part and the conductor connecting part, a metal shield of less than 0.6 in
non-uniform constant ~~before coating the shield with the dielectric~~ is coated with a dielectric
coating, prior to coating the composite insulating shields, the dielectric coating having a
thickness of not more than approximately 30% of an inter-electrode distance from a facing
electric-field relaxation shield or a charging part.

2. (currently amended) A gas-insulated switchgear comprising:

a grounding metal housing filled with insulating gas, and ~~in which~~ accommodates a disconnector part, the disconnector part having a moving side electrode part and a stationary side electrode part ~~is accommodated~~; and

composite insulating shields integrally formed into one metal-dielectric member in which a surface of a high electric field part, located in the vicinity of ~~at~~ ends of openings of the composite insulating shields, is coated with a dielectric coating in such a manner as to cover said moving side electrode part with the dielectric coating;

wherein, to form said composite insulating shield, a metal shield of less than 0.6 in non-uniform constant ~~before coating with the dielectric~~ is coated with a dielectric coating, prior to coating the composite insulating shields, the dielectric coating having a thickness of not more than approximately 30% of an inter-electrode distance from an electric-field relaxation shield of said stationary side electrode part.

3. (currently amended) A gas-insulated switchgear comprising:

a grounding metal housing ~~+~~ filled with insulating gas, and ~~in which~~ accommodates a grounding switch part, the grounding switch part having a moving side electrode part and a stationary side electrode part ~~is accommodated~~; and

composite insulating shields integrally formed into one metal-dielectric member in which a surface of a high electric field part, located in the vicinity of ~~at~~ ends of openings of the composite insulating shields, is coated with a dielectric coating in such a manner as to cover said moving side electrode part with the dielectric coating;

wherein, to form said composite insulating shields, a metal shield of less than 0.6 in non-uniform constant ~~before coating with the dielectric~~ is coated with a dielectric coating, prior to coating the composite insulating shields, the dielectric coating having a thickness of not more than approximately 30% of an inter-electrode distance from an electric-field relaxation shield of said stationary side electrode part.

4. (currently amended) The gas-insulated switchgear according to claim 2-, wherein, to form the electric-field relaxation shield of said stationary side electrode part, a metal shield of less than 0.6 in non-uniform constant ~~before coating with the dielectric~~ is coated, prior to coating the composite insulating shields, with a dielectric coating having a thickness of not more than approximately 30% of an inter-electrode distance from an electric-field relaxation shield of said moving side electrode part.

5. (currently amended) The gas-insulated switchgear according to claim 3-, wherein, to form the electric-field relaxation shield of said stationary side electrode part, a metal shield of less than 0.6 in non-uniform constant ~~before coating with the dielectric~~ is coated, prior to coating the composite insulating shields, with a dielectric coating having a thickness of not more than approximately 30% of an inter-electrode distance from an electric-field relaxation shield of said moving side electrode part.

6. (currently amended) The gas-insulated switchgear according to claim 2, wherein a surface of the high electric field part₁ in the vicinity of the end of ~~the~~an opening of the electric-field relaxation shield of said stationary side electrode part₁ is composed of a metal or is coated with a dielectric coating of not larger than 1 mm in thickness.

7. (currently amended) The gas-insulated switchgear according to claim 3, wherein a surface of the high electric field part₁ in the vicinity of the end of ~~the~~an opening of the electric-field relaxation shield of said stationary side electrode part₁ is composed of a metal or is coated with a dielectric coating of not larger than 1 mm in thickness.

8. (original) The gas-insulated switchgear according to claims 1, wherein said dielectric coating is made of epoxy resin integrally formed with said electric-field relaxation shield by injection molding.

9. (currently amended) The gas-insulated switchgear according to claims 1, wherein said insulating gas is a ~~simple~~ substance of SF₆, dry air, N₂, CO₂, O₂ or C-C₄F₈, or a mixture of at least two of said gases.